

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (Currently Amended) A liquid crystal display apparatus comprising:

a pair of substrates, at least one of which is transparent;

a liquid crystal layer disposed between the pair of substrates;

a plurality of groups of electrodes disposed on at least one of the pair of substrates for applying an electric field to the liquid crystal layer;

a liquid crystal display part having a plurality of active elements connected to the electrodes;

drive means, supplied with display data from means for supplying data to be displayed, for driving individual pixels of the liquid crystal display part by applying a voltage corresponding to the display data to the individual pixels, the drive means including data emphasis means for comparing new display data supplied from the means for supplying data to be displayed with previous display data supplied from the means for supplying data to be displayed, and for emphasizing and converting the new display data to designated display data in response to a result of the comparison and the supplied data;

an illumination unit including a plurality of illumination areas for illuminating the liquid crystal display part; and

illumination control means, responsive to an overshoot drive resulting in a transmittance level exceeding a predetermined designated level, for dynamically controlling an illumination start time and an illumination "on" time of the illumination

unit so that a time integral value of a transmission factor for an overshoot-frame in which the transmission factor is changed due to ~~an~~ the overshoot drive, is substantially equal to a time integral value of a transmission factor for a non-overshoot frame in which the transmission reaches a designated level and stays in a stable state.

Claim 2 (Original) A liquid crystal display apparatus according to claim 1, wherein in case that any change is detected in the display data by the comparison, the data emphasis means emphasizes and converts the new display data so as to increase the change, and modifies a response of a corresponding pixel of the liquid crystal display part so as to be larger than a value corresponding to an original value of the new display data; and

wherein the illumination control means controls the illumination start time and the illumination "on" time of a corresponding one of the illumination areas of the illumination unit so that a time integral value of an amount of light passing through the corresponding pixel while a display characteristic is changing is substantially identical to a time integral value of an amount of light passing through the corresponding pixel while the display characteristic is stable.

Claim 3 (Original) A liquid crystal display apparatus according to claim 1, wherein in case that any change is detected in the display data by the comparison, the data emphasis means emphasizes and converts the new display data so as to increase the change, and modifies a response of a corresponding pixel

of the liquid crystal display part so as to be larger than a value corresponding to an original value of the new display data; and

wherein the illumination control means controls the illumination start time and the illumination "on" time of a corresponding one of the illumination areas of the illumination unit so that visual sensation values with respect to light passing through the corresponding pixel in the course of response and after response are substantially identical to each other.

Claim 4 (Original) A liquid crystal display apparatus according to claim 1, wherein the illumination start time and the illumination "on" time of the illumination areas of the illumination unit are predefined so as to be equal to average values of values for all the display data dependent on the individual display data according to the response of the liquid crystal display part after data conversion.

Claim 5 (Original) A liquid crystal display apparatus according to claim 2, wherein the illumination start time and the illumination "on" time of the illumination areas of the illumination unit are predefined so as to be equal to average values of values for all the display data dependent on the individual display data according to the response of the liquid crystal display part after data conversion.

Claim 6 (Original) A liquid crystal display apparatus according to claim 3, wherein the illumination start time and the illumination "on" time of the illumination areas of the illumination unit are predefined so as to be equal to average values of

values for all the display data dependent on the individual display data according to the response of the liquid crystal display part after data conversion.

Claim 7 (Original) A liquid crystal display apparatus according to claim 1, wherein the illumination start time and the illumination "on" time of the illumination areas of the illumination unit are changed adaptively and determined so as to be average values weighted with a number of display data to be displayed at an area among values dependent on the individual display data according to the response of the liquid crystal display part after data emphasis and conversion.

Claim 8 (Original) A liquid crystal display apparatus according to claim 2, wherein the illumination start time and the illumination "on" time of the illumination areas of the illumination unit are changed adaptively and determined so as to be average values weighted with a number of display data to be displayed at an area among values dependent on the individual display data according to the response of the liquid crystal display part after data emphasis and conversion.

Claim 9 (Original) A liquid crystal display apparatus according to claim 3, wherein the illumination start time and the illumination "on" time of the illumination areas of the illumination unit are changed adaptively and determined so as to be average values weighted with a number of display data to be displayed at an area among values dependent on the individual display data according to the response of the liquid crystal display part after data emphasis and conversion.

Claim 10 (Original) A liquid crystal display apparatus according to claim 1,
wherein the light source includes a sheet-type light emitting element.

Claim 11 (Currently Amended) A liquid crystal display apparatus comprising:
a liquid crystal display part for displaying a picture signal;
drive means for driving the liquid crystal display part, the drive means
including picture signal emphasis means for comparing a new picture signal supplied
from means for supplying a picture signal with a previous picture signal supplied
from means for supplying a picture signal, and emphasizing and converting the new
picture signal in response to a result of the comparison and the supplied picture
signal;

at least one light source; and

an illumination unit including a light amount adjusting part for adjusting an
amount of light from the light source for a plurality of illumination areas of the
illumination unit; and

illumination control means, responsive to an overshoot drive resulting in a
transmittance level exceeding a predetermined designated level, for dynamically
controlling an illumination start time and an illumination "on" time of the illumination
unit so that a time integral value of a transmission factor for an overshoot-frame in
which the transmission factor is changed due to ~~an~~ the overshoot drive, is
substantially equal to a time integral value of a transmission factor for a non-
overshoot frame in which the transmission reaches a designated level and stays in a
stable state.

Claim 12 (Original) A liquid crystal display apparatus according to claim 11, wherein the light amount adjusting part of the illumination unit is transparent to light when a voltage is not applied to the light amount adjusting part.

Claim 13 (Original) A liquid crystal display apparatus according to claim 11, wherein the light source includes a sheet-type light emitting element.

Claim 14 (Original) A liquid crystal display apparatus according to claim 11, wherein in case that any change is detected in the picture signal by the comparison, the picture signal emphasis means emphasizes and converts the new picture signal so that a display of a corresponding pixel in the liquid crystal display part is changed with a value more than a value corresponding to an original picture signal by arrival of a next picture signal; and

wherein the illumination control means controls the light amount adjusting part of the illumination unit so that a time integral value of an amount of light passing through the corresponding pixel while the display of the corresponding pixel is changing is substantially identical to a time integral value of an amount of light passing through the corresponding pixel while the display of the corresponding pixel is stable.

Claim 15 (Original) A liquid crystal display apparatus according to claim 11, wherein in case that any change is detected in the picture signal by the comparison, the picture signal emphasis means emphasizes and converts the new picture signal so that the change increases, and changes a display of a

corresponding pixel in the liquid crystal display part with a value more than a value corresponding to an original picture signal by an arrival of next picture signal; and

wherein the illumination control means controls the light amount adjusting part of the illumination unit so that visual sensation values with respect to the light passing through the corresponding pixel in the course of response and after response are substantially identical to each other.

Claim 16 (Original) A liquid crystal display apparatus according to claim 11, wherein the lighting timing and the lighting period of time of the light source are predefined so as to be average values of values for all the display data dependent on the individual display data according to the response of the liquid crystal display part after data conversion.

Claim 17 (Original) A liquid crystal display apparatus according to claim 14, wherein the lighting timing and the lighting period of time of the light source are predefined so as to be average values of values for all the display data dependent on the individual display data according to the response of the liquid crystal display part after data conversion.

Claim 18 (Original) A liquid crystal display apparatus according to claim 11, wherein the lighting timing and the lighting period of time of the light source are changed adaptively and determined so as to be average values weighted with the number of display data to be displayed at an area illuminated by the illumination unit

among values dependent on the individual display data according to the response of the liquid display part after data emphasis and conversion.

Claim 19 (Original) A liquid crystal display apparatus according to claim 12, wherein the lighting timing and the lighting period of time of the light source are changed adaptively and determined so as to be average values weighted with the number of display data to be displayed at an area illuminated by the illumination unit among values dependent on the individual display data according to the response of the liquid display part after data emphasis and conversion.

Claim 20 (Original) A liquid crystal display apparatus according to claim 14, wherein the lighting timing and the lighting period of time of the light source are changed adaptively and determined so as to be average values weighted with the number of display data to be displayed at an area illuminated by the illumination unit among values dependent on the individual display data according to the response of the liquid display part after data emphasis and conversion.

Claims 21 - 23 (Canceled)

Claim 24 (Currently Amended) A liquid crystal display apparatus comprising:
a liquid crystal display panel;

drive means, supplied with display data from means for supplying data to be displayed, for driving individual pixels of the liquid crystal display panel by applying a voltage corresponding to the display data to the individual pixels, the drive means

including data emphasis means for comparing new display data supplied from the means for supplying data to be displayed with previous display data supplied from the means for supplying data to be displayed, and for emphasizing and converting the new display data to designated display data in response to a result of the comparison and the supplied data;

an illumination unit including a plurality of illumination areas for illuminating the liquid crystal display panel; and

illumination control means, responsive to an overshoot drive resulting in a transmittance level exceeding a predetermined designated level, for dynamically controlling an illumination start time and an illumination "on" time of the illumination unit so that a time integral value of a transmission factor for an overshoot frame in which the transmission factor is changed due to ~~an~~ the overshoot drive, is substantially equal to a time integral value of a transmission factor for a non-overshoot frame in which the transmission reaches a designated level and stays in a stable state.

Claim 25 (New) A liquid crystal display apparatus comprising:

a pair of substrates, at least one of which is transparent;

a liquid crystal layer disposed between the pair of substrates;

a plurality of groups of electrodes disposed on at least one of the pair of substrates for applying an electric field to the liquid crystal layer;

a liquid crystal display part having a plurality of active elements connected to the electrodes;

drive means, supplied with display data from means for supplying data to be displayed, for driving individual pixels of the liquid crystal display part by applying a voltage corresponding to the display data to the individual pixels, the drive means including data emphasis means for comparing new display data supplied from the means for supplying data to be displayed with previous display data supplied from the means for supplying data to be displayed, and for emphasizing and converting the new display data to designated display data in response to a result of the comparison and the supplied data;

an illumination unit including a plurality of illumination areas for illuminating the liquid crystal display part; and

illumination control means, responsive to an overshoot drive resulting in a transmittance level exceeding a predetermined designated level, for dynamically controlling an illumination start time and an illumination "on" time of the illumination unit so that a time integral value of a transmission factor for an overshoot-frame in which the transmission factor is changed due to the overshoot drive, is substantially identical to a time integral value of a transmission factor for a non-overshoot frame in which the transmission reaches a designated level and stays in a stable state.